

Table 1.—Preliminary estimates of passage by brood-year (BY) and run for unmarked juvenile Chinook salmon and steelhead trout captured by rotary-screw traps at Red Bluff Diversion Dam (RK391), Sacramento River, CA, for the dates listed below. Results include estimated passage, peak river discharge volume, water temperature, turbidity, and fork length (mm) range in parentheses. A dash (-) indicates that sampling was not conducted on that date.

Date	Discharge volume (cfs) ¹	Water temperature (°C)	Water turbidity (NTU)	Estimated passage				
				BY11 Winter	BY10 Spring	BY10 Fall	BY11 Late-Fall	BY11 RBT
8/27/2011	11,900	14.4	3.8	1,679 (30 – 38)	0 (-)	349 (95 – 121)	291 (55 – 86)	695 (36 – 82)
8/28/2011	11,900	14.4	3.8	1,961 (33 – 46)	0 (-)	761 (93 – 114)	444 (70 – 88)	1,076 (38 – 117)
8/29/2011	12,100	14.3	3.7	2,018 (31 – 38)	0 (-)	435 (97 – 130)	162 (61 – 86)	1,235 (41 – 123)
8/30/2011	12,000	14.4	–	–	–	–	–	–
8/31/2011	12,200	14.3	–	–	–	–	–	–
9/1/2011	11,800	14.6	–	–	–	–	–	–
9/2/2011	11,700	14.6	–	–	–	–	–	–
9/3/2011	11,400	14.3	–	–	–	–	–	–
9/4/2011	11,600	14.2	–	–	–	–	–	–
9/5/2011	11,600	14.1	–	–	–	–	–	–
9/6/2011	11,600	14.1	–	–	–	–	–	–
9/7/2011	11,300	14.1	4.0	2,236 (32 – 40)	0 (-)	127 (101 – 104)	68 (88)	271 (56 – 71)
9/8/2011	11,600	14.1	3.7	3,400 (32 – 47)	0 (-)	0 (-)	140 (89 – 92)	216 (62 – 78)
9/9/2011	11,500	14.2	–	–	–	–	–	–
Biweekly Total²				32,928	0	4,052	2,821	8,721
<i>Biweekly Lower 90% Confidence Interval</i>				-84,996	0	-16,351	-14,136	-27,976
<i>Biweekly Upper 90% Confidence Interval</i>				150,852	0	24,455	19,778	45,418
Brood Year Total				38,835	151,701	8,409,554	82,336	45,494
<i>Brood year Lower 90% Confidence Interval</i>				15,083	53,774	4,781,949	13,619	17,274
<i>Brood year Upper 90% Confidence Interval</i>				62,586	249,628	12,037,158	151,053	73,714

¹ Peak daily discharge values do not account for diversions at RBDD and only represent peak flows registered at the Bend Bridge Gauging station (<http://cdec2.water.ca.gov/cgi-progs/queryFx?bnd>).

² Biweekly totals may be greater than the sum of the daily estimates presented in this table if sampling was not conducted on each day of the biweekly period. A dash (-) denotes those dates. To estimate daily passage for days that were not sampled, we impute missed sample days with the weekly mean value of days sampled within the week.

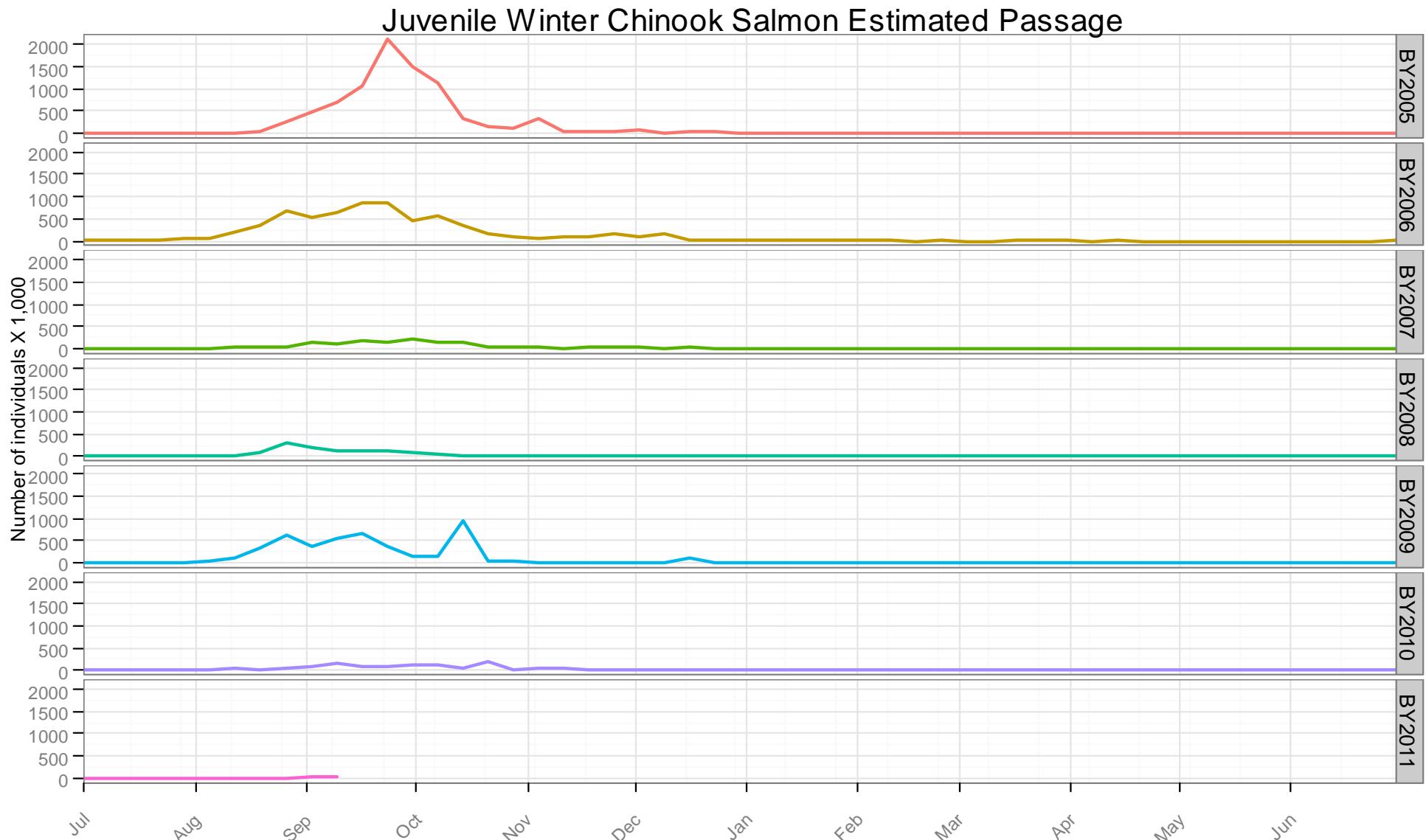


Figure 1. Weekly estimated passage of juvenile winter Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period July 1 2005 to present .

Juvenile Spring Chinook Salmon Estimated Passage

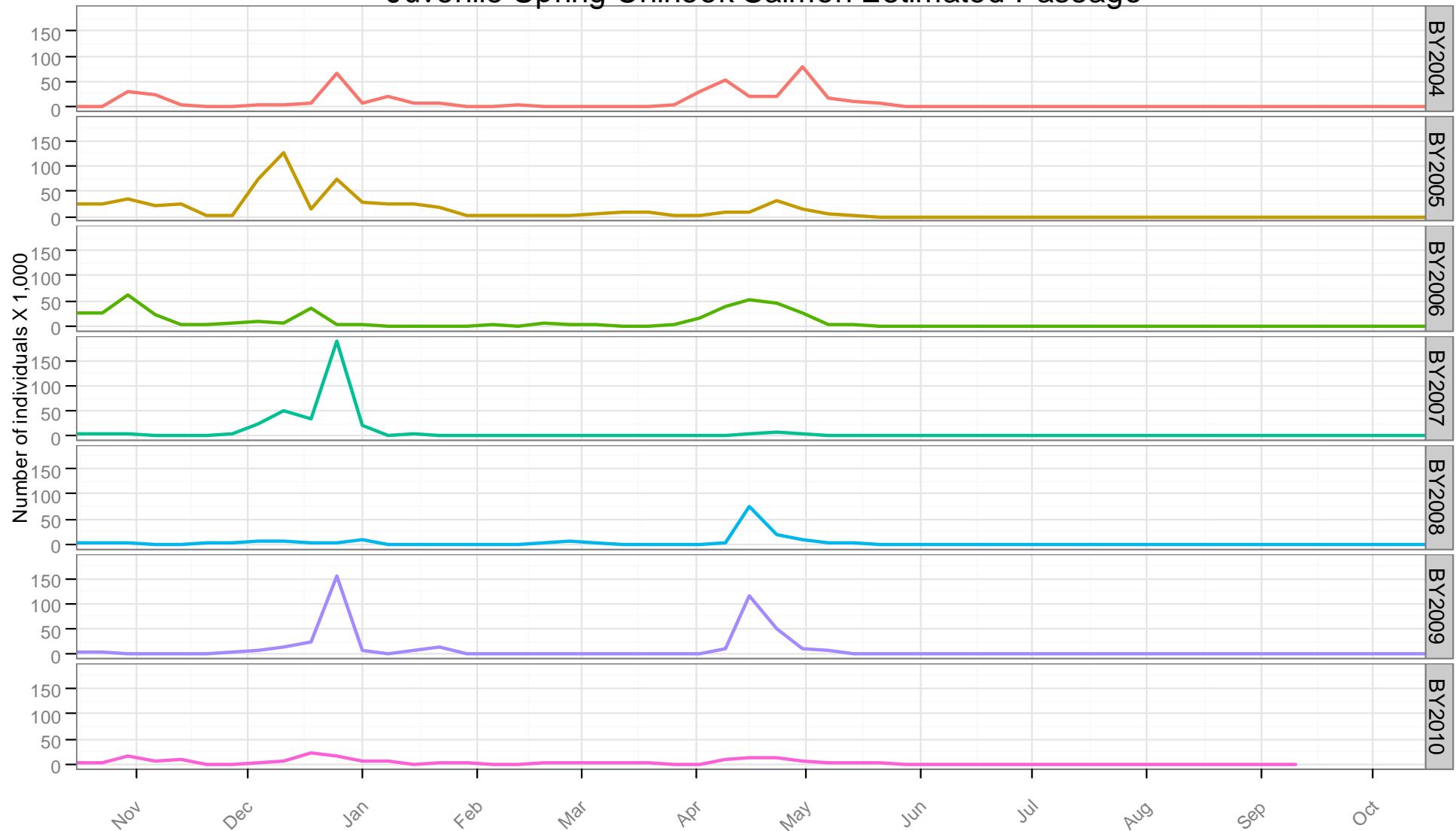


Figure 2. Weekly estimated passage of juvenile Spring Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period October 16 2004 to present .

Juvenile *Onchorhyncus mykiss* Estimated Passage

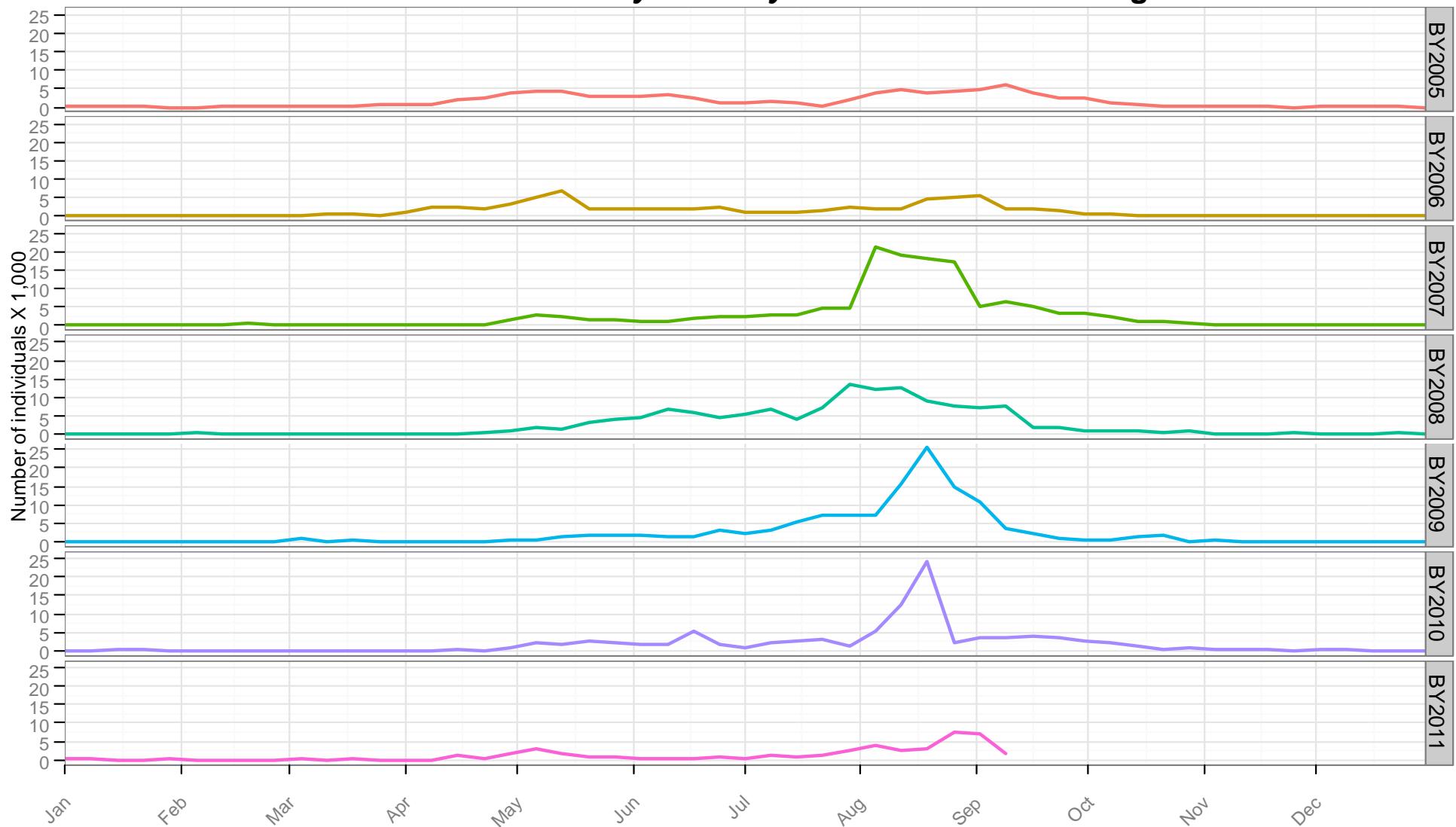


Figure 3. Weekly estimated passage of juvenile Rainbow/Steelhead trout at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period January 1 2005 to present .

Juvenile Fall Chinook Salmon Estimated Passage

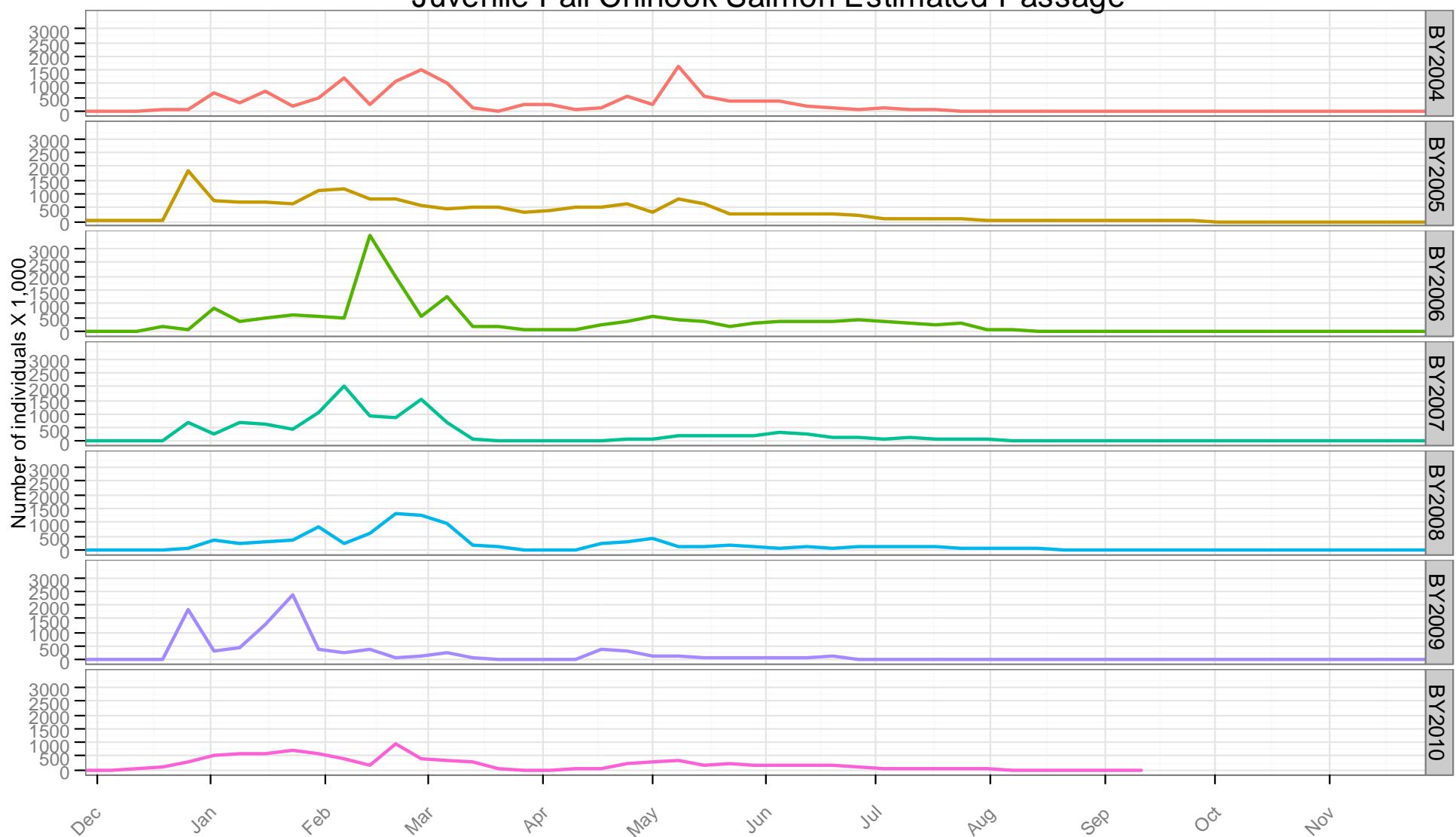


Figure 4. Weekly estimated passage of juvenile Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period December 1 2004 to present .

Juvenile Late Fall Chinook Salmon Estimated Passage

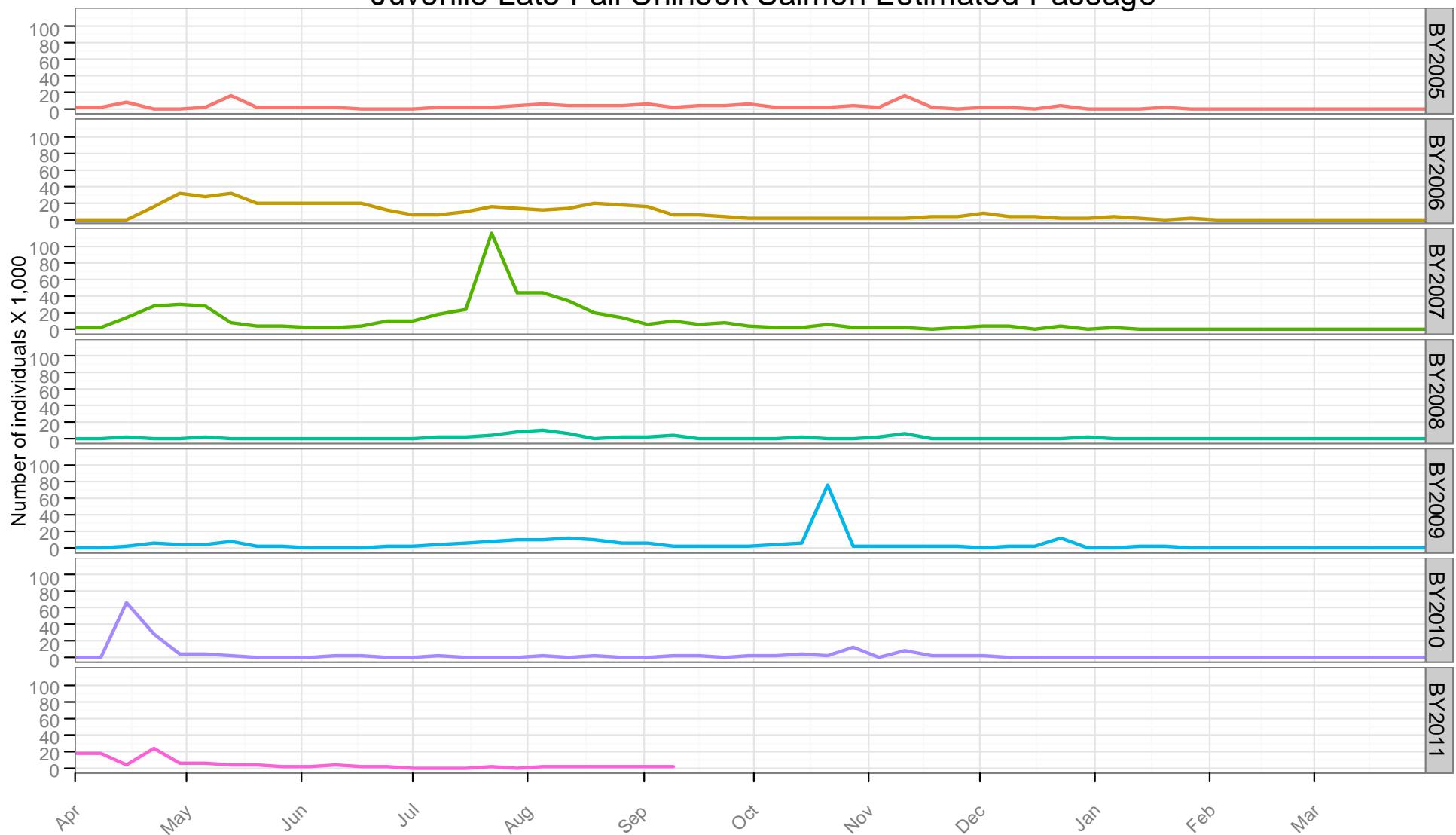


Figure 5. Weekly estimated passage of juvenile Late Fall Chinook Salmon at Red Bluff Diversion Dam (RK391), by brood-year (BY). Fish were sampled using rotary-screw traps for the period April 1 2005 to present .

Weekly Estimated Chinook Passage at Red Bluff Diversion Dam - All Runs Combined

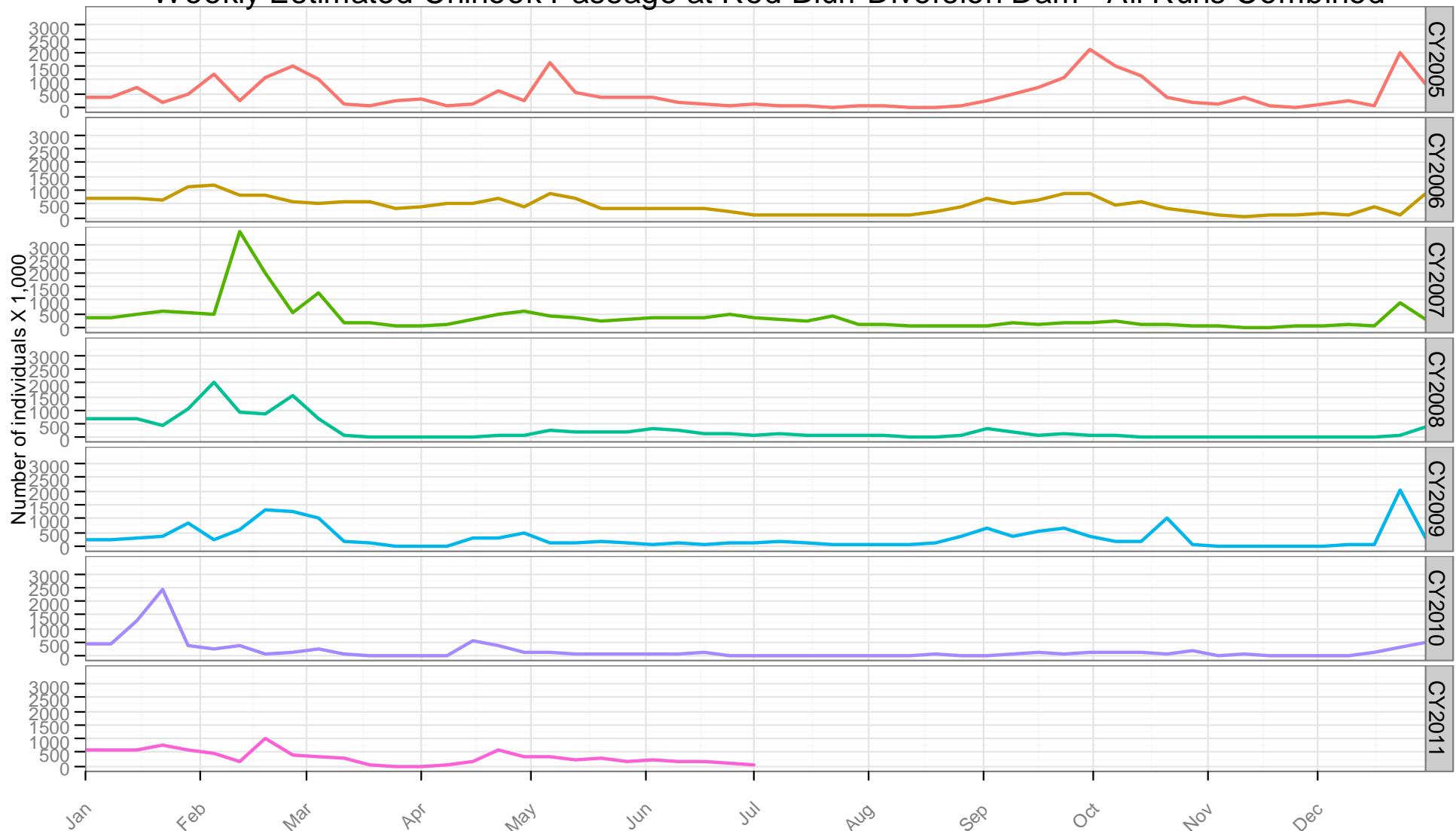


Figure 6. Weekly estimated passage of juvenile Chinook Salmon at Red Bluff Diversion Dam (RK391), by calendar year. Fish were sampled using rotary-screw traps for the period January 1 2005 to June 30 2011